

CP63-E PTZ Camera

4K PTZ for Expansive and Highly-Detailed Coverage of Large Areas



Overview

The CP63-E 4K PTZ camera includes a large 1 / 1.8" progressive CMOS image sensor for superior image quality and precise, detailed monitoring. The CP63-E's advanced varifocal lens with 32x motorized optical zoom and 100-meter IR range complement its [sentry mode](#) for unparalleled, automated monitoring of individuals across an expansive field of view. With its onboard CV72S Ambarella processor delivering advanced analytics like AI-powered search, AI-powered alerts, person of interest (POI) alerts, and crowd detection, the CP63-E excels in monitoring large areas such as sports fields, parking lots, or stadiums.

Key features

Superior image quality

- Large 1 / 1.8" progressive CMOS image sensor
- 4K resolution
- Varifocal lens with 32x optical zoom
- 100 meters / 328 feet of IR range for long-range nighttime viewing

Advanced analytics

- Onboard CV72S Ambarella processor enables people and vehicle analytics
- AI-powered search and AI-powered alerts

Automated monitoring

- Support sentry mode with up to three context cameras for automated monitoring of vast areas

Hybrid cloud architecture

- Onboard storage and processing helps reduce bandwidth consumption, enabling coverage at scale
- 30 - 90 days (1TB - 3TB) of onboard storage
- Redundant cloud backup and unlimited cloud-based archiving of footage monitoring

Durability and weather protection

- Robust metal housing
- IP66 weather rating
- IK10 impact rating
- Operability between -40°C to 50°C / -40°F to 122°F



CP63-E

Tech specs

Camera features

Image sensor	1 / 1.8" Progressive CMOS	Shutter speed	1 / 30 sec. to 1 / 10,000 sec.
Sensor resolution¹	4K (3840 x 2160)	Day/night	IR-cut filter for day and night function
Lens type	Varifocal; motorized zoom	IR-cut filter	Yes
Focal length	6.5mm – 212mm	IR range	100m / 328ft
Aperture	F1.4 – F4.9	Minimum illumination	0.02 lux @ F1.4 (Color) 0 lux @ F1.4 with IR Illuminators on
Iris	P-Iris	Onboard storage	Capacity: from 1TB to 3TB Card: MicroSD, SDXC
Field of view	Horizontal: 64° - 2° Vertical: 37° - 1° Diagonal: 71° - 2°	CPU	Ambarella CV72S66
Sensor movement	Tilt: 220° Pan: 360°		

Standard video settings

Compression	H.265 (historical video only), H.264	Historical video settings	Adaptive quality ¹
Frame rate²	24fps	WDR technology	True WDR, dual exposure
Live streaming settings³	Static: 1,000 Kbps (SQ), 3,000 Kbps (HQ) Moving: 3,000 Kbps (SQ), 5,000 Kbps (HQ)		

Standard audio settings

Audio	Not supported
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Power and network

Power input⁴	With IR: IEEE 802.3bt Type 3 PoE++ Without IR: IEEE 802.3bt Type 3 PoE++ Extended temperature range: IEEE 802.3bt Type 3 PoE++	Connectivity	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power consumption⁴	With IR: 43-57V, 1.13-0.85A, 48.0W Without IR: 43-57V, 0.80-0.60A, 34.0W Extended temperature range: 43-57V, 1.20-0.89A, 51.0W	RTSP	RTSP 1.0 RFC 2326 Max concurrent streams: 2 Audio support: No

1. All our cameras record in "adaptive quality," capturing both standard (SQ) and high quality (HQ) streams. SQ video is stored up to the amount of retention specified by the customer. The amount of HQ video stored on the camera will depend on the amount of motion detected by the camera over time. To learn more, visit our website: <https://docs.verkada.com/docs/adaptive-quality-recording-whitepaper.pdf>.

2. Frame rate can be adjusted by support.

3. The listed ranges represent the uplink bandwidth based on target bitrates. To learn more, visit Verkada's Knowledge Base and read "[Understanding Variable Bitrates for Verkada PTZ Cameras](#)".



CP63-E

Tech specs

General

Operating temperature	-40°C to 50°C / -40°F to 122°F	LED indicator	System power and status indicator
Humidity	0 to 90%	Warranty	5 years
Certifications	FCC, IC, CE, UKCA, RCM, VCCI, NOM, IK10 impact rating, IP66 weather rating	Included accessories	Rubber cap, pendant cap, T30 security L-wrench

Mechanical

Weight	Camera: 7.53kg / 16.6lbs Pendant cap: 0.41kg / 0.9lbs	Body	Aluminum, plastic, glass
Dimensions	Ø: 256.0mm / 10.08in, H: 406.0mm / 15.98in with pendant cap Ø: 256.0mm / 10.08in, H: 336.0mm / 13.23in without pendant cap		

Dimensions

256.0mm / 10.08in



406.0 mm / 15.98 in

Software capabilities

Alerts	Camera status, motion detection, people detection, vehicle detection, person of interest detection, crowd detection, AI-powered alerts	Streaming and storage	Cloud backup, configurable retention days, selectable storage location, timelapse, RTSP
People analytics	People search, attribute search, face search, Sentry Mode, motion search, trajectory analysis, selective face blurring, AI-powered search	Sharing and privacy	Live links, audit log
Vehicle analytics	Vehicle search, attribute search, motion search, trajectory analysis, AI-powered search	Controllers ⁵	Mouse, keyboard, Xbox Wireless Controller, joystick

Coverage examples



360° pan



220° tilt

5. For details on the supported controllers for PTZ cameras, refer to the article [here](#).



Ordering information

CP63-E Pricing

Model number	MP ¹	WDR	Lens	IR range	Onboard storage	Maximum SQ onboard retention ¹	People/vehicle analytics	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
CP63-1TBE-HW	4K	✓	Zoom	100m / 328ft	1TB	30 days	✓	\$5,299	\$5,099
CP63-2TBE-HW	4K	✓	Zoom	100m / 328ft	2TB	60 Days	✓	\$7,499	\$7,299
CP63-3TBE-HW	4K	✓	Zoom	100m / 328ft	3TB	90 Days	✓	\$9,699	\$9,499

1. All our cameras record in "adaptive quality," capturing both standard and high quality streams. Standard quality (SQ) video is stored up to the amount of retention specified by the customer. The amount of high quality video stored on the camera will depend on the amount of motion detected by the camera over time. To learn more, visit our website: <https://docs.verkada.com/docs/adaptive-quality-recording-whitepaper.pdf>



Ordering information

Video Security Cloud License Pricing (new/capacity increase)

Model number	Description	US cost (MSRP) ^{USD}	WW cost(MSRP) ^{USD}
LIC-CAM-1Y-CAP	1-year camera license, capacity increase	\$249	\$249
LIC-CAM-3Y-CAP	3-year camera license, capacity increase	\$659	\$659
LIC-CAM-5Y-CAP	5-year camera license, capacity increase	\$1,099	\$1,099
LIC-CAM-10Y-CAP	10-year camera license, capacity increase	\$2,199	\$2,199

Video Security Cloud License Pricing (renewal)

Model number	Description	US cost (MSRP) ^{USD}	WW cost(MSRP) ^{USD}
LIC-CAM-1Y-RNW	1-year camera license, renewal	\$249	\$249
LIC-CAM-3Y-RNW	3-year camera license, renewal	\$659	\$659
LIC-CAM-5Y-RNW	5-year camera license, renewal	\$1,099	\$1,099
LIC-CAM-10Y-RNW	10-year camera license, renewal	\$2,199	\$2,199



Accessories

Recommended accessories

Model Number	Description
ACC-MNT-CORNER-1	Corner Mount
ACC-MNT-POLE-1	Pole Mount
ACC-MNT-XLARM-1	Large Arm Mount
ACC-POE-90W-AU	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, Australia Type I Plug
ACC-POE-90W-EU	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, Europe Type F Plug
ACC-POE-90W-NA	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, North America Type B Plug
ACC-POE-90W-UK	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, United Kingdom Type G Plug